Approved For R	elease 2003/09/ ⅓ 02:	公於用亞門78T04759A00980	0010019-0	25X ²
		25X1	ll March 1971	25X ²
MEMORANDUM FÓR: THROUGH: SUBJECT:	R-400 Microwave	Equipment in the Mosco	LOAN COPY RETURN TO DSB IHI107, Hq.	25×2
REFERENCES :		NSA/SPO/R-74-71 NSA/SPO/R-82-71 251002 251014	on rusa, oppir	
or confirming the microwave equipment following:	ed by geographic e presence of racent. The specification of the face	ted a readout of 40 ins coordinates for the pu dio relay stations and ic information requeste	arpose of locating identifying the dincludes the	
nearest seed	ond,	the antenna mast;		
c. Typelements;	oe, number, and o	ardinal azimuths of th	e microwave	
d. Imm with nearby	nediate support f military or othe	acilities and direct or support facilities;	r indirect support	
e. Any	evidence of "ho	ok-up" via overhead or	buried cable;	
$ ext{f.}$ The tions at the	presence of any se facilties.	other microwave radio	-relay communica-	
sightings of R-40 was available, an photography of ea available for 18 found at a locati	che readouts we chalocation. On of the locations on, a search was a geographic coor.	pment. Photography of ere accomplished on the ly small-scale in the ly small-scale in the ly small-scale in the ly small-scale in the ly small scale within a 5-nautical dinates to determine when the ly small scale in the	e latest and best photography was quipment could be al-mile (nm) radius nether or not a radio	25X ²
GROUP I: EXCLUDED FROM		Declassification Revi	ew by NIMA/DoD	
Automatic Downgrading and Declassification		1		
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3. Each location where microwave equipment was observed is described as follows:

The first line represents the name and geographic coordinates of the location as given

25X1

b. The second line contains the BE-TDI name and BE number of the facility containing the microwave equipment. In some cases this line refers the reader to another facility, indicating that one radio relay station serves two or more of the locations specified in the

c. Subordinate items (a) through (f) contain the specific information concerning the microwave equipment as itemized in subparagraphs a through f in paragraph 1.

Following are descriptions of the 15 installations where microwave equipment or a radio relay station was observed:

1 - BABYNIO 54-23-00N 035-46-00E

BABYNINO RADREL STATION

25X1

(a) 54-23-49N 035-44-00E

(b) Steel lattice tower in height.

25X1

- (c) R-60/120 periscopic relay station consisting of two upper plane reflectors and two lower ellipsoidal reflectors with cardinal azimuths of northeast and southwest.
- (d) Immediate support facilities consist of one control building and one support building.
- (e) None
- (f) None

2 - DURYKINO/LOZHKI 56-04-27N 037-07-14E

PERSHKI RADREL STATION |

25X1

(a) 56-08-40N 037-03-50E

(b) Masonry tower of undetermined height.

(c) The type, number, and cardinal azimuths of the antennas is undetermined due to the small scale of the photog-25X1 raphy.

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(d) Immediate support facilities consist of one control building and five support buildings. The radio relay 25X1 station may indirectly support Solnechnogorsk Army Barracks and Infantry School AL 1 (25X1 Moskva Radcom and Radrel Station Lozhki

(e) None

(f) None

3 - MOSCOW SAM SITE C33-1 56-07-57N 037-11-14E This installation is served by PESHKI RADREL STATION See item 2.

4 - KINESHMA SAM SITE CO1-2 57-49-51N 042-10-59E KINESHMA SAM SITE COL-2

25X1

(a) 57-49-51N 042-10-59E

(b) Steel guyed tower in height.

25X1 (c) A probable communications tower of undetermined type was observed in the southeast corner of the launch

area. This equipment has been previously reported as an unidentified acquisition radar.

(d) Immediate support equipment consists of two van trucks, two van or cargo trailers, and two probable single-

axle trailers.

- (e) The unidentified tower and equipment appears to be associated with the guidance area of the SA-2 launch site and is connected by a buried cable. A second scar from the tower is connected to a support building and earth-covered structure.
- (f) None

5 - MIKHAYLOVSKOE 55-00-30N 033-22-00E

(b) Steel lattice tower [

SAFANOVO RADREL STATION (a) 55-05-05N 033-12-50E

in height.

(c) Two R-600 antennas (Vesna horns) with cardinal azimuths of west and east-northeast.

(d) Immediate support facilities consist of one control building, one probable administration building, and five storage or support buildings.

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	(e) None(f) At least four additional ring supports for R-600 antennas are mounted near the top of the lattice tower.	
•	6 - NPN 55-07-00N 033-09-00E This geographic coordinate sighting is served by SAFANOVO RADREL STATION See item 5.	25>
	7 - PENKOVO 55-08-00N 033-22-00E This installation is served by SAFANOVO RADREL STATION See item 5.	
	(a) 55-35-51N 037-34-55E	25) 25) •
	9 - POKROVSKOYE 55-36-00N 037-37-00E This location is served by MOSKVA RADREL STATION KRASNYY STROITEL . See item 8.	
	10 - SMOLENSK RADAR SITE 54-47-00N 032-03-00E SMOLENSK RADREL/TV AND FM BC STATION (a) 54-46-45N 032-02-40E (b) Steel lattice tower (c) R-60/120 periscopic relay station consisting of two upper plane reflectors and two lower ellipsodial reflectors with probable cardinal azimuths of southeast and west-southwest. (d) Immediate support facilities consist of one control	25) 25)

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the city of Smolensk.

(e) None

(f) None	
11 - VOLOGDA AW RADAR AND TALL KING FACILITY 59-08-00N 040-04-00 VOLOGDA RADREL/TV FACILITY (a) 59-11-00N 039-55-00E	Œ 25X1
 (b) Steel guyed tower	
12 - VOLOGDA RADCOM STATION PRILUKI AL 5 59-14-45N 039-55-10E This facility is served by VOLOGDA RADREL/TV FACILITY See item 11.	
13 - VOLOGDA RADCOM STATION MILITARY 59-16-40N 039-53-00E This facility is served by VOLOGDA RADREL/TV FACILITY See item 11.	
THE VARASTANT SAM STORE DOG O ET LOS CON COLOR	

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YAROSLAVL SAM SITE BO2-2 57-47-53N 039-57-42E TOLBUKHINO RADREL STATION (

(a) 57-51-00N 040-02-10E

(b) Steel guyed tower of undetermined height.

- (c) The type, number, and cardinal azimuths of the antennas are undetermined due to the small scale of the photography.
- (d) Immediate support facilities consist of one control building and four support buildings. The radio relay stations may indirectly support Yaroslavl SAM Site B02-2

(e) None

25X1

25X1

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(f) None

15 - YAROSLAVL SAM SITE B21-2 57-23-04N 039-42-42E YAROSLAVL RADREL STATION (BE 0154-none)

(a) 57-24-55N 039-41-40E

(b) Steel lattice tower 64.0 meters (210 feet) in height.

(c) The type and number of antennas is undetermined due to poor interpretability of the photography. The cardinal azimuths are probably northeast and southwest.

(d) Immediate support facilities consist of one control building, five support buildings, and one vehicle shed.

The radio relay station may indirectly support Yaroslavl SAM Site B21-2

25X1

(e) None

(f) None

25X1

25X1

5. At the following locations or geographic coordinates no microwave equipment or radio relay stations were identified:

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16 - BALABANOVO*
                                           55-11-00N 036-41-00E
17 - BEZHETSK AFLD AW RADAR AND TK FAC
                                          57-44-00N 036-39-00E
18 - CHEKOV COMMAND/CONTROL FAC
                                          55-09-55N 037-15-20E
19 - CHERN*
                                          53-28-00N 036-59-00E
20 - KALINGRAD*
                                          55-57-00N 037-48-00E
21 - KOSTROMA ICBM SAM SITE A32-2
                                          58-06-21N 041-04-32E
22 - KOSTROMA ICBM SAM SITE B21-2
                                          57-48-47N 041-02-12E
23 - KOSTROMA SAM CPLX DO4-5
                                          58-13-20N 041-37-55E
24 - KUNTSEVO*
                                          55-45-00N 037-22-40E
25 - MAKAROVO*
                                          57-19-00N 039-33-00E
26 - MONINO RADIO COM STA/HARD
                                          55-49-50N 038-11-20E
27 - MOSKVA RAD BC XMTR STA TARASOVKA*
                                          55-57-55N 037-49-10E
28 - MOSKVA SAM SITE E05-3
                                          56-15-20N 038-29-50E
29 - NPN*
                                          56-08-00N 037-19-00E
30 - PENINO RADIO COM STATION*
                                          53-33-00N 037-22-00E
31 - PETUSKI*
                                          55-55-00N 039-28-00E
32 - RYBINSK SAM SITE Al3-2
                                          57-58-15N 039-04-29E
33 - TISHINO RADAR SITE*
                                          54-50-00N 031-39-00E
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3 ¹ 4 - TROITSKY RADCOM RCVR STA W 35 - YAM* 36 - YAROSLAVL SAM SITE BlO-2 37 - YAROSLAVL SAM SITE B29-2* 38 - YAROSLAVL SAM SITE B29A-2* 39 - YEDROVO SSM SAM SITE C32-2 40 - ZAGORSK*	55-29-30N 037-15-00E 55-29-00N 037-45-00E 57-34-54N 040-16-41E 57-40-39N 039-33-52E 57-41-00N 039-31-20E 57-55-00N 033-38-00E 56-17-00N 038-07-00E
*Small-scale coverage only	
6. NPIC will report by OAK, OAK Supplemelay stations or microwave equipment observed	
7. This project is considered complete. project may be directed to Branch, WGD/IEG, on extension	Questions regarding this of the Western USSR

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